

Electrafil® J-1/CF/15/TF/20

Techmer Polymer Modifiers - Polyamide 66

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Filler / Reinforcement	• Carbon Fiber, 15% Filler by Weight
Additive	• PTFE Lubricant: 20%
Features	• Lubricated
Uses	• Automotive Electronics • Business Equipment • Packaging • Bushings • Conveyor Parts
RoHS Compliance	• RoHS Compliant
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.33		ASTM D792
Molding Shrinkage - Flow (0.125 in)	3.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.60	%	ASTM D570
Mechanical			
Tensile Modulus	1.60E+6	psi	ASTM D638
Tensile Strength (Break, 73°F)	24000	psi	ASTM D638
Flexural Modulus (73°F)	1.50E+6	psi	ASTM D790
Flexural Strength (Break, 73°F)	34500	psi	ASTM D790
Compressive Strength	20000	psi	ASTM D695
Shear Strength	11000	psi	ASTM D732
Coefficient of Friction (vs. Steel - Static)	0.11		ASTM D1894
Impact			
Notched Izod Impact (73°F, 0.125 in)	1.4	ft·lb/in	ASTM D256
Thermal			
Deflection Temperature Under Load (66 psi, Unannealed)	495	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	482	°F	ASTM D648
CLTE - Flow	1.3E-5	in/in/°F	ASTM D696
Electrical			
Surface Resistivity	5.0E+2	ohms	ASTM D257
Flammability			
Flame Rating	HB		UL 94
Additional Information			
Surface Resistivity, ASTM D257: 1E2-1E3 ohm/sq			

Processing Information

	Nominal Value	Unit
Injection		
Drying Temperature	165 to 220	°F
Drying Time	2.0 to 16	hr
Rear Temperature	540 to 560	°F
Middle Temperature	550 to 570	°F
Front Temperature	530 to 550	°F
Nozzle Temperature	520 to 540	°F
Processing (Melt) Temp	540 to 580	°F



